DESAIN ROBOT KESEHATAN UNTUK PEMINDAH PASIEN CORONAVIRUS (2019-nCoV) DI RUMAH SAKIT

Health Robot Design For Coronavirus (2019-nCoV) Patient Transportation In Hospital

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ABSTRACT

Medical personnel will have direct contact with patients under certain circumstances, namely when transferring patients and treating patients directly. To overcome the direct contact between Covid-19 patients and medical personnel, robots are used as remote monitoring for medical personnel for Covid-19 patients. This robot design can solve some problems that are not solved by the robots that have been used today. So that the researchers designed a patient transfer medical robot that can be accessed remotely using WiFi to make it easier for health workers to carry out their work during the Covid-19 pandemic. From several literature studies obtained from books and journals, there are several ways to move patients in an emergency. A good way to apply the design of a robot to lift patients is Seat Carries (Two Rescuers). From the design result that have been made, it is found that the patient transfer robot has the ability to minimize medical personnel by making direct contact with patients. The patient transfer robot is designed with dimensions that have a length of 922,40 mm, a width of 999,67 mm, and a height of 998,50 mm. Medical personnel can monitor patients remotely using a Samsung A8 tablet that has an Android application installed that is connected to a raspberry. In addition, the patient monitoring process is carried out safely because the robot moves by relying on the Logitech C922 camera.

Keywords **:** *Robot Design, Covid-19 patients, Patient Transfer Robot*